PULSE LAB

VENNER
ELECTRONICS LTD.

15 Mc/s Converter
type TSA851
Instructions.

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15 Mc/s Converter type TSA851

Instructions.

General:

The TSA851 has been designed to extend the upper frequency limit of counting instruments by dividing the input frequency by a factor of 1, 10 or 20.

The unit will accept sine waves, square waves and pulse inputs having frequencies up to 15 Mc/s and amplitudes between 100mV and 100V.

The unit has been designed primarily to increase the performance of the Frequency & Time Measuring Equipment type TSA3336 and to be fitted in a plinth unit especially designed to harmonise with the TSA3336.

However, the TSA851 is a self contained unit and may be successfully employed with other instruments and for other applications.

Setting Up:

Connect A.C. mains to the plug via the socket provided on the back panel in the following manner:-

Live - pin A
Neutral - pin B
Earth - pin C

Set the voltage adjustment, visible through an aperture in the top panel, to the appropriate voltage. Switch the supply switch to the ON position.

Operation:

Frequencies connected to the socket marked INPUT will be divided according to the setting of the DIVISION FACTOR switch and be obtained from the socket marked OUTPUT.

When used in conjunction with the TSA3336 the maximum output frequency should not exceed 1.1. Mc/s. Using a 1 second gating period the indication can be to the nearest 10 c/s, by using a 10 second gating position indication to the nearest cycle is obtained.

The divide by one factor connects the input and output sockets directly together and has been incorporated to save having to disconnect the unit when using the frequency meter in its normal manner.

Specification:

Input voltage range	:	100mV to 100V
Input impedance	:	10 Kilohm in parallel with 15pF.
Division ratio	:	1, 10 or 20.
Frequency response	:	15 c/s - 15 Mc/s.
Size	:	$6\frac{3}{8}$" wide x 13" long x 3" high. 17 cm x 33 cm x $7\frac{1}{2}$ cm.
Weight	:	$5\frac{1}{4}$ lbs. 2.4 Kg.
Power supply	:	200/250V or 100/125V. 50-60 c/s.
Load	:	11 Watts.

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